

10/032,035  
EAST

L Number	Hits	Search Text	DB	Time stamp
1	83	(60/725).CCLS.	USPAT	2003/06/19 09:04
2	234	(431/114).CCLS.	USPAT	2003/06/19 08:53
3	203	((431/114).CCLS.) not ((60/725).CCLS.)	USPAT	2003/06/19 09:01
6	73204	(gas or combust\$7) near3 turbine\$2	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/19 10:26
7	163905	\$acoustic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/19 09:06
9	183468	\$acoustic\$6	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/19 09:07
10	70176	(\$acoustic\$6 or \$noise\$5 or \$muffl\$5 or \$sound\$4) same (wall\$2 or liner\$3 or lining\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/19 09:09
11	3081	(\$acoustic\$6 or \$noise\$5 or \$muffl\$5 or \$sound\$4) same (wall\$2 or liner\$3 or lining\$3) same (combust\$6 or burn\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/19 10:45
12	217	(((\$acoustic\$6 or \$noise\$5 or \$muffl\$5 or \$sound\$4) same (wall\$2 or liner\$3 or lining\$3) same (combust\$6 or burn\$4)) and ((gas or combust\$7) near3 turbine\$2 ))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/19 09:09
13	190	(((\$acoustic\$6 or \$noise\$5 or \$muffl\$5 or \$sound\$4) same (wall\$2 or liner\$3 or lining\$3) same (combust\$6 or burn\$4)) and ((gas or combust\$7) near3 turbine\$2 )) not (((60/725).CCLS.) or ((431/114).CCLS.))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/19 09:09
14	3523	(\$acoustic\$6 or \$noise\$5 or \$muffl\$5 or \$sound\$4) same (wall\$2 or liner\$3 or lining\$3) same (combust\$6 or burn\$4)	USOCR	2003/06/19 09:36
15	11519	(gas or combust\$7) near3 turbine\$2	USOCR	2003/06/19 10:54
16	210	(((\$acoustic\$6 or \$noise\$5 or \$muffl\$5 or \$sound\$4) same (wall\$2 or liner\$3 or lining\$3) same (combust\$6 or burn\$4)) and ((gas or combust\$7) near3 turbine\$2 ))	USOCR	2003/06/19 09:38
17	1509	(\$acoustic\$6 or \$noise\$5 or \$muffl\$5 or \$sound\$4) same (tile\$2 or tiling\$3 or housing\$2) same (combust\$6 or burn\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/19 09:45
18	84	((gas or combust\$7) near3 turbine\$2 ) and (((\$acoustic\$6 or \$noise\$5 or \$muffl\$5 or \$sound\$4) same (tile\$2 or tiling\$3 or housing\$2) same (combust\$6 or burn\$4)))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/19 09:45
19	54	(((gas or combust\$7) near3 turbine\$2 ) and ((((\$acoustic\$6 or \$noise\$5 or \$muffl\$5 or \$sound\$4) same (tile\$2 or tiling\$3 or housing\$2) same (combust\$6 or burn\$4))) not (((\$acoustic\$6 or \$noise\$5 or \$muffl\$5 or \$sound\$4) same (wall\$2 or liner\$3 or lining\$3) same (combust\$6 or burn\$4))) combust\$6 same clip\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/19 09:47
24	941		USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/19 10:27
25	62	(combust\$6 same clip\$3 ) and ((gas or combust\$7) near3 turbine\$2 )	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/19 10:27

28	1	us-6532742-\$ did.	DERWENT	2003/06/19 10:33
35	43	screech\$ same (combust\$6 or burn\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/19 10:54
38	0	JP-7293276-\$ did.	DERWENT	2003/06/19 10:50
39	1	JP-07293276-\$ did.	DERWENT	2003/06/19 10:50
40	23	(screech\$ same (combust\$6 or burn\$4)) and ((gas or combust\$7) near3 turbine\$2 )	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/19 10:53
41	12	((screech\$ same (combust\$6 or burn\$4)) and ((gas or combust\$7) near3 turbine\$2 )) not (((60/725).CCLS.) or ((431/114).CCLS.) or ((((\$acoustic\$6 or \$noise\$5 or \$muffl\$5 or \$sound\$4) same (wall\$2 or liner\$3 or lining\$3) same (combust\$6 or burn\$4)) and ((gas or combust\$7) near3 turbine\$2 )) or ((combust\$6 same clip\$3 ) and ((gas or combust\$7) near3 turbine\$2 )))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/19 10:53
42	21	screech\$ same (combust\$6 or burn\$4)	USOCR	2003/06/19 10:54
43	6	((gas or combust\$7) near3 turbine\$2 ) and (screech\$ same (combust\$6 or burn\$4))	USOCR	2003/06/19 10:54

DERWENT-ACC-NO: 2000-099642

DERWENT-WEEK: 200009

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TITLE: Combustion chamber for gas turbine,  
with inner walls enclosing combustion zone

INVENTOR: KELLER, J

PATENT-ASSIGNEE: ASEA BROWN BOVERI AG [ALLM]

PRIORITY-DATA: 1998EP-0810656 (July 10, 1998)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	MAIN-IPC	G
LANGUAGE EP 971172 A1	012	January 12, 2000	F23R 003/00	

DESIGNATED-STATES: AL AT BE CH CY DE DK ES FI FR GB GR IE  
IT LI LT LU LV MC MK  
NL PT RO SE SI

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-DESCRIPTOR	APPL-NO
EP 971172A1 1998EP-0810656	N/A July 10, 1998		

INT-CL (IPC): F01N001/02, F02B077/13, F02M035/12,  
F23R003/00,  
G10K011/172

ABSTRACTED-PUB-NO: EP 971172A

BASIC-ABSTRACT:

NOVELTY - The inner walls (12,17) enclosing the combustion zone (23) are cooled by cooling air supplied from outside. A perforated plate (24) parallel with

the inner walls is positioned in part of the outside of the inner walls and is spaced apart from them. The perforated plate with one inner wall (17) which has first openings (27) in it, forms an enclosed damping volume (26). The perforated plate has second openings (25) in it for bringing cool air from outside.

USE - The first openings together with the damping volume form Helmholtz resonators and act as noise-dampers for the acoustic oscillations in the combustion chamber.

ADVANTAGE - The acoustically damped combustion chamber for a gas turbine is economical and compact for integrated resonators, and cools the inner walls effectively.

DESCRIPTION OF DRAWING(S) - The drawing shows a combustion chamber near the transition between supply zone and combustion zone with integrated Helmholtz resonators.

Inner walls 12,17

Combustion zone 23

Perforated plate 24

Openings 25,27

Damping volume 26

CHOSEN-DRAWING: Dwg.2/5

TITLE-TERMS: COMBUST CHAMBER GAS TURBINE INNER WALL ENCLOSURE COMBUST ZONE

DERWENT-CLASS: P86 Q51 Q52 Q53 Q73

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N2000-076956